



Safe Drinking Water Act 1414(c)(5) Data Submission Form For Exceedance of Lead Level at Household(s)

This form is to be completed when EPA receives sampling data from a source other than a state or public water system (PWS). The purpose is to collect information so EPA can send it to the PWS/state so they can disseminate required information to the household and take any follow-up steps. If information is not available or is unknown, please indicate as such on the form.

Contact Information		
1. Name of contact providing the information: CDM Smith	2. EPA Contact Reviewing the Information: Mike Schock	
1A. Contact Email: Not Available	2A. EPA Contact Email: schock.michael@epa.gov	
1B. Contact Phone Number: Not Available	2B. EPA Contact Phone Number: 513-569-7412	
1C. Contact Address: 110 Fieldcrest Ave, #8, 6th Floor, Edison, NJ 08837		
Household Information		
3. Enter the sample address below. 3A. Street house & Number: <div>Personal Matters / Ex. 6</div>		
3B. City or Town: Newark	3C. State: NJ	3D. Zip Code: 07107
4. Describe the reason for the sample collection (e.g., received consumer notice that water system exceeded lead action level, nearby school conducted sampling and I wanted to check my water): Investigative sampling conducted by consultant to Newark Water and Sewer		
5. Indicate the type of household where the sample was collected (e.g., single family, multifamily home, apartment complex): Single Family	6. Enter the age of the building/home: Built 1920	

7. Is the household occupied? <input type="checkbox"/> Yes <input type="checkbox"/> No	7A. If not, how long has it been unoccupied?
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8. Enter contact information for the resident or owner/property manager (if a rental property) below.	
8A. Name of Contact: Not Available	8B. Contact Email: Not Available
8C. Contact Phone Number: Not Available	8D. Address (If different from Contact Information section above):

9. Name of the public water system (ask if the resident receives a water bill): Newark Water and Sewer
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Plumbing Information

10. If known, indicate the water pipe material from within the household (e.g., lead, copper, plastic, PEX): PEX, Cu, Galvanized Iron, LSL
11. If known, explain any recent changes to the household plumbing (e.g., replaced pipes, fixed leak): None

12. Does the household have a point of use (POU)/point of entry (POE) devices? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown

12A. If yes, indicate the type of treatment (e.g., reverse osmosis, water softener, etc.):	12B. If yes, was the water filter bypassed when the sample was collected? <input type="checkbox"/> Yes <input type="checkbox"/> No
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Sample Collection Information

13. Enter the date and time of the sample collection: 9/11/18	14. Name of Sample Collector: Patricia Hogan and Ryan Kostrzewa
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15. Where was the sample collected? (e.g., kitchen, bathroom, drinking fountain): Kitchen

16. Describe the sampling protocols that were followed (e.g., first draw, flush, stagnation period, etc.): 10 minute flush prior to 8 hr and 23 min stagnation, then sequential profile samples were collected.
17. What was the sample volume? 500 mL

18. Describe what was done to preserve the sample after collection (e.g., immediately sealed containers, left sealed samples out in room temperature, sent samples to lab in timely manner, etc.):

Samples were sent to lab in timely manner.

Analytical Results Information

19. Enter contact information for the laboratory that is analyzing the sample below.

19A. Name of the laboratory:

Agra Environmental and Laboratory Services

19B. Name of contact:

Mike Furrey

19C. Contact Email:

MFurrey@agra.us

19D. Contact Phone Number:

937-989-0010

19E. Contact Address:

90 1/2 West Blackwell St., Dover, NJ 07801

20. Is the laboratory EPA certified for lead analysis?

☐

Yes

☐

No

If yes, enter certification number:

NJ Laboratory Certification ID # 14013

21. What analytical method did the laboratory use to analyze the sample?

SM3113B

22. What is the laboratory hold time?

14-15 days

23. Was analysis conducted using a formal chain of custody?

☐

Yes

☐

No

If yes, please attach documentation.

24. Is there a copy of the laboratory report?

☐

Yes

☐

No

Sample ID	Cumulative Volume (L)	Total Lead (µg/L)	Soluble Lead (µg/L)
B1	0.5	17.5	13.9
B2	1.0	15.8	11.2
B3	1.5	14.3	39.7
B4	2.0	147	78.3
B5	2.5	109	51.8
B6	3.0	64.6	39.6
B7	3.5	33.6	33.3
B8	4.0	31.7	21.5
B9	4.5	27.4	17.2
B10	5.0	26.4	21.4
B11	5.5	23.9	18
B12	6.0	17.1	13.4
Flush	6.5	12.8	10.5



Environmental and Laboratory Services

90 ½ West Blackwell St., Dover, New Jersey 07801

(973) 989-0010 P, (973) 989-0156 F

Analytical Results

Date: September 25, 2018

Client: City of Newark
Division of Sewers & Water Supply
Address: 1294 McBride Ave
Little Falls, NJ 07424

Sample description: Grab / 18091102-01

Sample location: ☐ Personal Matters / Ex. 6

Sampled By: E. Bischoff

Sample date: 09/11/18

Time: 08:10

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead (1 st Draw)	SM3113B	17.5 µg/L	15 µg/L	09/14/18	19:16	1	2 µg/L
Lead (Dissolved)	SM3113B	13.9 µg/L	5 µg/L	09/14/18	22:33	1	2 µg/L
Copper	SM3111B	0.165 mg/L	1.3 mg/L	09/18/18	12:46	1	0.05 mg/L

Sample description: Grab / 18091102-02

Sample location: ☐ Personal Matters / Ex. 6

Sampled By: E. Bischoff

Sample date: 09/11/18

Time: 08:10

Analyst: B. Moraga / M. Schrieke / J. MacDonald

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	15.8 µg/L	5 µg/L	09/14/18	19:21	1	2 µg/L
Lead (Dissolved)	SM3113B	11.2 µg/L	5 µg/L	09/14/18	22:45	1	1 µg/L
Copper	SM3111B	0.169 mg/L	1.3 mg/L	09/18/18	12:46	1	0.05 mg/L
Alkalinity	SM2320B	34.00 mg/L	--	09/12/18	10:51	1	5 mg/L
Conductivity	SM2510B	221 uMho/cm @ 25°C	--	09/13/18	15:47	1	5 uMho/cm

Sample description: Grab / 18091102-03

Sample location: ☐ Personal Matters / Ex. 6

Sampled By: E. Bischoff

Sample date: 09/11/18

Time: 08:10

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	143 µg/L	5 µg/L	09/14/18	19:35	10	20 µg/L
Lead (Dissolved)	SM3113B	39.7 µg/L	5 µg/L	09/14/18	22:53	2	4 µg/L
Copper	SM3111B	0.089 mg/L	1.3 mg/L	09/18/18	12:47	1	0.05 mg/L

Sample description: Grab / 18091102-04
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: 09/11/18
 Time: 08:10
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	147 µg/L	5 µg/L	09/14/18	20:05	10	20 µg/L
Lead (Dissolved)	SM3113B	78.3 µg/L	5 µg/L	09/14/18	23:04	4	8 µg/L
Copper	SM3111B	0.064 mg/L	1.3 mg/L	09/18/18	12:47	1	0.05 mg/L

Sample description: Grab / 18091102-05
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: 09/11/18
 Time: 08:10
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	109 µg/L	5 µg/L	09/14/18	20:19	10	20 µg/L
Lead (Dissolved)	SM3113B	51.8 µg/L	5 µg/L	09/14/18	23:26	4	8 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/18/18	12:48	1	0.05 mg/L

Sample description: Grab / 18091102-06
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: 09/11/18
 Time: 08:10
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	64.6 µg/L	5 µg/L	09/14/18	20:30	4	8 µg/L
Lead (Dissolved)	SM3113B	39.6 µg/L	5 µg/L	09/14/18	23:35	2	4 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/18/18	12:48	1	0.05 mg/L

Sample description: Grab / 18091102-07
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: 09/11/18
 Time: 08:10
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	33.6 µg/L	5 µg/L	09/14/18	20:49	2	4 µg/L
Lead (Dissolved)	SM3113B	33.3 µg/L	5 µg/L	09/14/18	23:43	2	4 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/18/18	12:48	1	0.05 mg/L

Sample description: Grab / 18091102-08
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: 09/11/18
 Time: 08:10
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	31.7 µg/L	5 µg/L	09/14/18	21:25	2	4 µg/L
Lead (Dissolved)	SM3113B	21.5 µg/L	5 µg/L	09/14/18	23:51	2	4 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/18/18	12:49	1	0.05 mg/L
Alkalinity	SM2320B	35.0 mg/L	--	09/12/18	10:52	1	5 mg/L
Conductivity	SM2510B	214 uMho/cm @ 25°C	--	09/13/18	15:48	1	5 uMho/cm

Sample description: Grab / 18091102-09
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: 09/11/18
 Time: 08:10
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	27.4 µg/L	5 µg/L	09/14/18	21:33	2	4 µg/L
Lead (Dissolved)	SM3113B	17.2 µg/L	5 µg/L	09/15/18	00:02	1	2 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/18/18	12:49	1	0.05 mg/L

Sample description: Grab / 18091102-10
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: 09/11/18
 Time: 08:10
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	26.4 µg/L	5 µg/L	09/14/18	21:41	2	4 µg/L
Lead (Dissolved)	SM3113B	21.4 µg/L	5 µg/L	09/15/18	00:10	2	4 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/18/18	12:49	1	0.05 mg/L

Sample description: Grab / 18091102-11
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: 09/11/18
 Time: 08:10
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	23.9 µg/L	5 µg/L	09/14/18	21:55	2	4 µg/L
Lead (Dissolved)	SM3113B	18.0 µg/L	5 µg/L	09/15/18	00:27	1	2 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/18/18	12:49	1	0.05 mg/L

Sample description: Grab / 18091102-12
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: 09/11/18
 Time: 08:10
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	17.1 µg/L	5 µg/L	09/14/18	22:17	1	2 µg/L
Lead (Dissolved)	SM3113B	13.4 µg/L	5 µg/L	09/15/18	01:00	1	2 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/18/18	12:50	1	0.05 mg/L

Sample description: Grab / 18091102-13
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: 09/11/18
 Time: 08:20
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	12.8 µg/L	5 µg/L	09/14/18	22:22	1	2 µg/L
Lead (Dissolved)	SM3113B	10.5 µg/L	5 µg/L	09/15/18	01:05	1	2 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/18/18	12:50	1	0.05 mg/L
Alkalinity	SM2320B	33.0 mg/L	--	09/12/18	10:53	1	5 mg/L
Conductivity	SM2510B	222 uMho/cm @ 25°C	--	09/13/18	15:49	1	5 uMho/cm

Sample description: Grab / 18091102-14
 Sample location: Personal Matters / Ex. 6
 Sampled By: E. Bischoff
 Sample date: --
 Time: --:--
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	14.2 µg/L	5 µg/L	09/14/18	22:28	1	2 µg/L
Copper	SM3111B	0.180 mg/L	1.3 mg/L	09/18/18	12:50	1	0.05 mg/L

µg/L = micrograms per liter
 mg/L = milligrams per liter

All testing was done within the required holding time.

I certify that these samples were analyzed in accordance with procedures approved by the New Jersey Department of Environmental Protection.

Susan Van Veen
 Susan VanVeen, Lab Manager
 NJ Laboratory Certification ID # 14013

9/25/18
 Date

CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

_____ Asc./HCl Vials pH: _____
 # _____ HCl Vials pH: _____
 # _____ Na₂S₂O₃ Cl₂: _____
 # _____ HNO₃ pH: _____
 # _____ H₂SO₄ pH: _____
 # _____ NaOH pH: _____
 # 13 unpreserved *Sumo*
 # _____ other _____
 # _____ other _____

Customer Name:	City of Newark	Report To:	Selene Samuel	Agra Environmental Services
Address:	620 Ridge Rd			90½ West Blackwell Street
	Cedar Grove, NJ 07009			Dover, NJ 07801
County/Municipality:				Phone: (973) 989-0010
Phone:	973-239-4493			Fax: (973) 989-0156
Work:	Tricia: 201-675-7225			

Matrix Abbreviations: D - Drinking Water G- Groundwater W- Wastewater S- Soil SL- Sludge P-Pool L-Lake Page 1


Project: Sequential Sampling Collection PWSID# NJ0714001 for laboratory use only Field Analysis

Field ID	Lab ID	Date	Time	Grab	Comp	Matrix	# of Bottles	Preservative	ANALYSIS REQUESTED	Cl ₂	pH/T°C
18091102											
674 5th St B1		9/11/2018	0810	X		D	1	none	Total & Dissolved Pb, Total Cu (all samples);	0.22	7.62/21.0°C
B2 - silica		9/11/2018		X		D	1	none	Alkalinity, Conductivity, **Silica (first, middle and final samples)		
B3		9/11/2018		X		D	1	none	**pH/temperature, Free Chlorine (first and final samples)		
B4		9/11/2018		X		D	1	none			
B5		9/11/2018		X		D	1	none	**pH/temperature, Free chlorine, and Silica analyzed by Newark		
B6		9/11/2018		X		D	1	none			
B7		9/11/2018		X		D	1	none		1.21	7.37/22.6°C
B8 - silica		9/11/2018		X		D	1	none			
B9		9/11/2018		X		D	1	none			
B10		9/11/2018		X		D	1	none			

Sampled By (name/company): <i>EB/Agra</i>	State Forms Needed (circle one): Yes or <u>No</u>				indicate laboratory location where analysis requested was performed	
	NJDEP Laboratory Certification (Dover, NJ) #14013					
	NJDEP Laboratory Certification (Marlboro, NJ) #13033					
Reporting Requirements (Check Box):	Standard	NJ Reduced	Other (Specify)		Cooler Temperature Upon Receipt at lab: 9.8°C	

Sample Custody Exchanges (Please use full legal signature)						Scanned _____
Relinquished By: <i>[Signature]</i>	Date: 9/11/18	Time: 0953	Received By: <i>[Signature]</i>	Date: 9/11/18	Time: 0955	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Date Faxed _____						Invoice Number _____
Is sample known to be hazardous? (circle one) Yes or No						

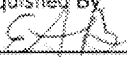

CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

Customer Name:	City of Newark	Report To:	Selene Samuel	Agra Environmental Services	
Address:	620 Ridge Rd			90½ West Blackwell Street	
	Cedar Grove, NJ 07009			Dover, NJ 07801	
County/Municipality:				Phone: (973) 989-0010	
Phone:	973-239-4493			Fax: (973) 989-0156	
Work:	Tricia: 201-675-7225				

Matrix Abbreviations: D - Drinking Water G- Groundwater W- Wastewater S- Soil SL- Sludge P-Pool L-Lake Page ____ of ____

Project: Sequential Sampling		Collection		PWSID# NJ0714001					for laboratory use only		Field Analysis	
Field ID	Lab ID:	Date	Time	Grab	Comp	Matrix	# of Bottles	Preservative	ANALYSIS REQUESTED	Cl ₂	pH/T°C	
18091102												
674 5th St B11		9/11/2018	0810	X		D	1	none	Total & Dissolved Pb, Total Cu (all samples);			
B12		9/11/2018	0810	X		D	1	none	Alkalinity, Conductivity, **Silica (first, middle and final samples)			
Flushed B13-silica		9/11/2018	0820	X		D	1	none	**pH/temperature, Free Chlorine (first and final samples)	1.04	7.32/22.0°C	
		9/11/2018		X		D	1	none				
		9/11/2018		X		D	1	none	**pH/temperature, Free chlorine, and Silica analyzed by Newark			
		9/11/2018		X		D	1	none				
		9/11/2018		X		D	1	none				
		9/11/2018		X		D	1	none				
		9/11/2018		X		D	1	none				
		9/11/2018		X		D	1	none				

Sampled By (name/company): ES/Agra	State Forms Needed (circle one): Yes or <u>No</u>					indicate laboratory location where analysis requested was performed	
	NJDEP Laboratory Certification (Dover, NJ) #14013						
	NJDEP Laboratory Certification (Marlboro, NJ) #13033						
Reporting Requirements (Check Box):	Standard	NJ Reduced	Other (Specify)			Cooler Temperature Upon Receipt at lab: 4.8°C	

Sample Custody Exchanges (Please use full legal signature)						Scanned _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
	9/11/18	0953		9/11/18	0955	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Date Faxed _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Invoice Number _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Is sample known to be hazardous? (circle one) Yes or No